

Technical drawing of a prestressed girder cross-section showing various components and dimensions. The drawing includes the following labels and dimensions:

- Top dimension: $3\frac{1}{2}"$ at $60^\circ F$
- Top-left dimension: $4\frac{1}{2}"$
- Top-right dimension: $4"$
- Left dimension: $2\frac{1}{2}"$
- Top-left detail: $\frac{1}{4}"$ 2-8
- Left detail: Bar $3/4" \times 7/8"$
- Left detail: Angle $8 \times 6 \times 5/8$ with two $13/16" \times 1\frac{1}{2}"$ horizontal slotted holes for $3/4" \varnothing$ machine bolts
- Left detail: $3/4" \varnothing \times 8"$ Long Welded Shear Connector Studs (Spaced alternately at abt. 3" cts.) (Typ.)
- Left detail: $3/4" \varnothing$ Machine Bolts and Nuts (Typ.)
- Left detail: Plate $6" \times 5/8"$ with two $13/16" \times 1\frac{1}{2}"$ horizontal slotted holes for $3/4" \varnothing$ machine bolts
- Right detail: Plate $12" \times 7/8"$
- Right detail: $3/4"$ Plate with two $13/16" \times 1\frac{1}{2}"$ vertical slotted holes for $3/4" \varnothing$ machine bolts and nuts. (Typ.)
- Right detail: $1/2"$ Beveled Stiffener Plate (Typ.)
- Right detail: $3/4" \times 2\frac{1}{4}"$ Wide Plate with two $13/16" \times 1\frac{1}{2}"$ slotted holes (Placed parallel to roadway) (Typ.)
- Right detail: $4"$ (Typ.)
- Right detail: $3"$ (Min.)
- Right detail: $1\frac{1}{4}" \times 2" \times 4\frac{1}{2}"$ Slotted Well (Cast in top of the prestress girder) and $3/4" \varnothing \times 7\frac{1}{2}"$ anchor bolt nut and washer. See Std. Specs. for grout for the anchor bolts (Typ.)
- Bottom dimension: $3\frac{1}{2}"$ (Typ.)
- Bottom dimension: $7"$ (Typ.)
- Bottom dimension: $4"$ (Typ.)
- Bottom dimension: $2"$ (Typ.)

A diagram showing a bar at an angle to the horizontal. The bar is labeled "Bar" and is shown at an "Angle" to the horizontal. The angle is indicated by a curved arrow and labeled $\frac{60^\circ}{G}$.

Drill 3/4" Ø
Concrete Vent
Holes @ obt.
12' Cts. (typ.)

2"

1 1/8"

6 7/16" Ø Countersunk
Hole in plate for 3/8" Ø
flat head stove bolt
with 1/2" x 1" slotted
hole in angle

2 1/2"

Bar 3/4" x 7/8"

Bar 1 1/4"
x 3/8" x 2"

5/8" Angle

Roadway
Plate

Back gauge

5/8" Plate

Diagram illustrating a bevel curb bent on a roadway face. The curb is shown in cross-section, with a vertical section labeled 'C' and a horizontal section labeled 'C'. The curb is bent at a 45-degree angle, with the top surface labeled 'Bevel plate bent on roadway face'. The width of the curb is indicated as 4 inches.

Technical drawing of a bent curb detail. The drawing shows a cross-section of a curb bent at an angle. Key components and dimensions include:

- 1/2" Bevel Barrier Curb Bent Plate**: The main plate forming the curb.
- Shop or Field Weld**: Indicated by a weld symbol on the curb plate.
- Roadway Plate (12" x 7/8")**: A plate on the roadway side of the curb.
- Expansion Device Plate**: A plate supporting the expansion device.
- 3/4" Ø Concrete vent holes at abt. 12" cts.**: Vent holes in the expansion device plate.
- 3/4" Ø x 8" Long Welded Shear Connector Studs (Spaced alternately at abt. 9" cts.)**: Studs connecting the curb plate to the roadway plate.
- 3/4" Ø x 6" Long Welded Shear Connector Stud (Typ.)**: A typical stud connecting the curb plate to the bent plate.
- Const. Joint**: A construction joint in the bent plate.

The diagram shows a vertical plate with a roadway plate attached to it. A horizontal line is drawn across the vertical plate, and a vertical line is drawn through the roadway plate. The angle between the horizontal line and the vertical line is labeled 60°. The roadway plate is labeled 'Roadway Plate' and the vertical plate is labeled 'Vertical Plate'.

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Technical drawing of a roof curb detail, showing two views: a side elevation and a cross-section.

Side Elevation View (Left):

- Bevel end of bent curb plate on roadway face
- 2-Layers 30# (Min.) Roofing Felt between plate and recess
- Bent Plate 1/2" x 12" x 15" (Form flush with curb)
- 5/8" recess

Cross-Section View (Right):

- Gap at 60°F
- 4"
- 2"
- 3 Welded Shear Connector Studs (3/4" \varnothing x 6" Long)

CREATED IN
MICROSTATION